

REMARKS**Status Of The Claims**

The Office Action dated May 16, 2003 has been reviewed, and its contents carefully considered. Claims 1-19 are pending. Claims 1-19 have been rejected. Claims 1, 4, 8, 11 and 15 have been amended.

Reconsideration and withdrawal of the outstanding rejections are respectfully requested in view of the following remarks.

Office Action

The drawings were rejected to as failing to comply with 37 C.F.R. § 1.84 (p)(5) because they included reference signs not mentioned in the description. The specification has been amended to include reference signs 3, 8, 9 and 13 in FIG. 1. It is believed that the drawings are now in compliance.

The disclosure was objected to because of informalities. The disclosure has been amended to correct these informalities as shown in the attached amendment. Thus, withdrawal of the objection to the disclosure is respectfully requested.

Claims 1-14 were objected to because of informalities. The claims have been amended to correct the aforementioned informalities as shown in the attached amendment. Thus, withdrawal of the objection to claims 1-14 is respectfully requested.

Claims 1-6, 8-13 and 15-19 were rejected under 35 U.S.C. § 102(b) as being anticipated by Frankovitch, Jr. et al. Reconsideration and withdrawal of the rejection is respectfully requested.

The invention as recited in independent claim 1 includes an oscilloscope adapter for a portable stand-alone electronic device comprising a removable modular adapted to interface with the hardware interface port of the portable stand-alone electronic device. An advantage of the invention is that the removable module includes a computer program memory for storing computer program instructions thereon to direct a processor to perform the steps of collecting data representative of a signal from an external source and displaying the data on the display as a waveform comprising individual data values as a function of time on a graph having a vertical axis and a horizontal axis, each axis having a scale. These features provide an advantage of the present invention over the prior art to provide an improved adapter device that enables a portable stand-alone electronic device to function as an oscilloscope (see page 4, lines 2-14 of the specification). The present invention adds additional functionality to the portable stand-alone electronic device (see page 9, lines 7-18 of the specification).

Frankovitch, Jr. et al. discloses a measuring device which displays waveforms representative of electrical signals including a selector, at least one input terminal, and a graphical display. The measuring device of Frankovitch, Jr. et al. is most commonly referred to as a oscilloscope (as pointed out at column 5, lines 8-9 and line 29 for examples). Hence, the measuring device of Frankovitch, Jr. et al. is an oscilloscope in and of itself. The aforementioned is all together different from the present invention because the portable stand-alone electronic device of the present invention functions independently of being an oscilloscope. It is the oscilloscope adapter comprising the removable module for interfacing

with the hardware interface of the portable stand-alone electronic device which converts the functionality of the portable stand-alone electronic device into an oscilloscope in order to collect and display data as recited, for instance, in claim 1.

Frankovitch, Jr. et al. fails to disclose these functions as recited in independent claim 1. As previously discussed, an advantage of having the feature of the removable module, as recited in claim 1, is that it allows the portable stand-alone electronic device to function as a oscilloscope (see page 9, lines 7-10 of the specification). Frankovitch, Jr. et al., at best, discloses a measuring device 10 which, in and of itself, is an oscilloscope. The Examiner attempts to equivocate the Executive Module 52 taught by Frankovitch, Jr. et al. as the presently claimed removable module. However, upon further review of Frankovitch, Jr. et al., the oscilloscope 10 includes a dial 14 which can be set to manipulate a set of waveform data from the internal memory of the oscilloscope. The Executive Module 52 decodes this change and determines which of the settings is desired (see Frankovitch, Jr. et al., column 7, lines 18-62). Hence, the Executive Module 52 merely decodes preexisting data for further determination of which setting should be utilized. Frankovitch, Jr. et al. fails to disclose “a removable module adapted to interface with a hardware interface port of the portable stand-alone electronic device...the module including a computer program memory, the memory storing computer program instructions thereon to direct the processor to perform the steps of: collecting data representative of a signal from an external source...and displaying the data on the display as a waveform.” In light of the foregoing, withdrawal of the rejection of claim 1 as being anticipated by Frankovitch, Jr. et al. is respectfully requested since Frankovitch, Jr. et al. fails to disclose the features as recited in claim 1.

Independent claims 8 and 15 recite similar features as claimed in claim 1 including collecting data representative of a signal from an external source and displaying the data on a display of the electronic device. As previously discussed, Frankovitch, Jr. et al. does not teach connecting a removable adapter module to a hardware interface port of a portable stand-alone electronic device wherein a removable adapter module instructs a processor for the electronic device to collect data representative of a signal from an external source and display the data on a display of the electronic device as recited in claims 8 and 15 allowing for conversion of the portable stand-alone electronic device onto an oscilloscope. In light of the foregoing, withdrawal of the rejection of claims 8 and 15 as being anticipated by Frankovitch, Jr. et al. is respectfully requested since Frankovitch, Jr. et al. fails to disclose the features as recited in claims 8 and 15.

Claims 2-6 ultimately depend on independent claim 1. Therefore, it is respectfully submitted that claims 2-6 are patentable over Frankovitch, Jr. et al. for at least the same reasons as discussed in response to the rejection of claim 1 as being anticipated by Frankovitch, Jr. et al.. In light of the foregoing, withdrawal of the rejection of claims 2-6 as being anticipated by Frankovitch, Jr. et al. is respectfully requested.

Claims 9-13 are ultimately depending on independent claim 8. Therefore, it is respectfully submitted that claims 9-13 are patentable over Frankovitch, Jr. et al. for at least the same reasons as discussed in response to the rejection of claim 8 as being anticipated by Frankovitch, Jr. et al.. In light of the foregoing, withdrawal of the rejection of claims 9-13 as being anticipated by Frankovitch, Jr. et al. is respectfully requested.

Claims 16-19 are ultimately depending on independent claim 15. Therefore, it is respectfully submitted that claims 16-19 are patentable over Frankovitch, Jr. et al. for at least the same reasons as discussed in response to the rejection of claim 15 as being anticipated by Frankovitch, Jr. et al.. In light of the foregoing, withdrawal of the rejection of claims 16-19 as being anticipated by Frankovitch, Jr. et al. is respectfully requested.

Claims 7 and 14 were rejected under 35 U.S.C. § 103(a) as being unpatentable over Frankovitch, Jr. et al. in view of Alexander et al. Claim 7 is dependent upon independent claim 1. The invention as recited in independent claim 1 includes a removable module adapted to interface with a hardware interface port of the portable stand-alone electronic device. The module includes a computer program memory which stores computer program instructions thereon to direct a processor to perform the steps of “collecting data representative of a signal from an external source...and displaying the data on the display as a waveform.” As previously discussed, an advantage of having the removable module adapted to interface with the hardware interface port of the portable stand-alone electronic device as recited in claim 1 is that it provides additional functionality to the portable stand-alone electronic device as an oscilloscope. Frankovitch, Jr. et al., at best, discloses a measuring device 10 as an oscilloscope. The Executive Module 52 merely manipulates preexisting oscilloscope data versus collecting data and displaying the data on the display as recited in claim 1 allowing for increased functionality of a portable stand-alone electronic device as an oscilloscope.

Alexander et al. does not cure the deficiencies of Frankovitch, Jr. et al., because it does not provide a removable module to interface with a hardware interface port of a portable stand-alone electronic device wherein the module includes a computer program memory to direct a

processor to perform the steps of collecting data and displaying the data on the display as a waveform as recited in claim 1.

Additionally, claim 7 requires the additional feature “wherein the adapter further includes a language database containing data representative of words and a plurality of languages.” Since the particulars of claim 7’s base claim are not taught by Frankovitch, Jr. et al., alone or in combination with Alexander et al., withdrawal of the rejection of claim 7 over Frankovitch, Jr. et al., in view of Alexander et al., is respectfully requested.

Claim 14 is dependent upon independent claim 8. The invention as recited in independent claim 8 includes a removable module adapted to interface with a hardware interface port of the portable stand-alone electronic device. The module includes a computer program memory which stores computer program instructions thereon to direct a processor to perform the steps of “collecting data representative of a signal from an external source...and displaying the data on the display as a waveform.” As previously discussed, an advantage of having the removable module adapted to interface with the hardware interface port of the portable stand-alone electronic device as recited in claim 1 is that it provides additional functionality to the portable stand-alone electronic device as an oscilloscope. Frankovitch, Jr. et al. at best, discloses a measuring device 10 as an oscilloscope. The Executive Module 52 merely manipulates preexisting oscilloscope data versus collecting data and displaying the data on the display as recited in claim 1 allowing for increased functionality of a portable stand-alone electronic device as an oscilloscope.

Alexander et al. does not cure the deficiencies of Frankovitch, Jr. et al., because it does not provide a removable module to interface with a hardware interface port of a portable stand-

alone electronic device wherein the module includes a computer program memory to direct a processor to perform the steps of collecting data and displaying the data on the display as a waveform as recited in claim 8.

Additionally, claim 14 requires the additional feature “wherein the adapter further includes a language database containing data representative of words and a plurality of languages...the method comprises the additional steps of translating text and displaying the translated text on the display.” Since the particulars of claim 14’s base claim are not taught by Frankovitch, Jr. et al., alone or in combination with Alexander et al., withdrawal of the rejection of claim 14 over Frankovitch, Jr. et al., in view of Alexander et al., is respectfully requested.

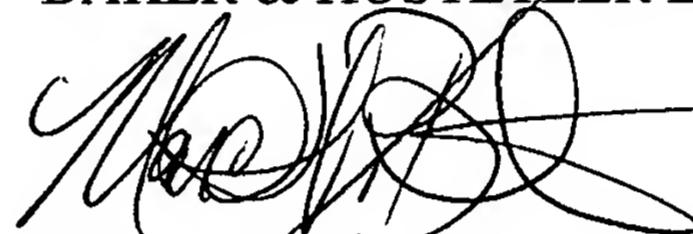
Conclusion

In view of the foregoing remarks, reconsideration and allowance of the application are believed in order and such action is earnestly solicited.

Should the Examiner believe that a telephone conference would expedite issuance of the application, the Examiner is respectfully invited to telephone the undersigned Patent Agent at (202) 861-1538.

Respectfully submitted,

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